

IN THE CLAIMS:

The following is a complete listing of the claims, and replaces all earlier listings and all earlier versions.

1. (Currently Amended) An image processing method comprising the steps of:

obtaining a plurality of sets of colorimetric data which correspond to respective light sources;

inputting a viewing condition;

21 selecting comparing the input viewing condition with conditions of the light sources to select a set of colorimetric data of a light source that has a condition similar to the input viewing condition, from the plurality of sets of colorimetric data ~~in accordance with a relation between the input viewing condition and each light source~~; and

conjecturing colorimetric data ~~corresponding to~~ depending on the input viewing condition based on from the selected set of colorimetric data.

2. (Original) The method according to claim 1, further comprising the step of caching the conjectured colorimetric data to the profile.

3. (Original) The method according to claim 1, further comprising the step of generating conversion data for color matching based on the conjectured colorimetric data.

4. (Currently Amended) The method according to claim 1, wherein said selecting comparing step includes selecting colorimetric data by comparing a chromaticity of a light source designated by the input viewing condition with chromaticities of the plurality of light sources to which the sets of colorimetric data correspond.

5. (Currently Amended) The method according to claim 1, wherein said selecting comparing step includes selecting colorimetric data by comparing a color temperature of a light source designated by the input viewing condition with color temperatures of the plurality to which the sets of colorimetric data correspond.

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6. (Previously Presented) The method according to claim 1, wherein said conjecturing step includes conjecturing colorimetric data corresponding to the input viewing condition by using a color appearance model.

7. (Currently Amended) The method according to claim 1, wherein the conjectured colorimetric data is cached to [[the]] another profile in correspondence with the input viewing condition.

8. (Currently Amended) An image processing method comprising the steps of:

obtaining a plurality of sets of colorimetric data which correspond to respective light sources;

inputting a viewing condition;

~~selecting comparing the input viewing condition with conditions of the light sources to select a set of colorimetric data of a light source that has a condition similar to the input viewing condition, from the plurality of sets of colorimetric data in accordance with a relation between the input viewing condition and each light source; and~~

generating data for color matching corresponding to the input viewing condition based on the selected set of colorimetric data.

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9. (Original) The method according to claim 8, further comprising the step of caching the generated data to the profile.

10. (Currently Amended) The method according to claim 8, wherein said ~~selecting comparing~~ step ~~selects~~ includes selecting colorimetric data by comparing a chromaticity of a light source designated by the input viewing condition with chromaticities of the plurality of light sources to which the sets of colorimetric data correspond.

11. (Currently Amended) The method according to claim 8, wherein said ~~selecting comparing~~ step includes selecting colorimetric data by comparing a color temperature of a light source designated by the input viewing condition with color temperatures of the plurality of light sources to which the sets of colorimetric data correspond.

12. (Currently Amended) The method according to claim 8, wherein said conjecturing generating step includes further comprises the steps of:

conjecturing a set of colorimetric data corresponding to depending on
the input viewing condition from the selected set of colorimetric data by using a color
appearance model; and

generating the data for color matching corresponding to the input
viewing condition from the conjectured set of colorimetric data.

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13. (Previously Presented) The method according to claim 8, wherein the
generated data is cached to another profile in correspondence with the input viewing condition.

14. (Currently Amended) An image processing apparatus comprising:
an obtaining section, arranged to obtain a plurality of sets of
colorimetric data which correspond to respective light sources;

an inputting section, arranged to input a viewing condition;

a selector, arranged to select a set of colorimetric data of a light source,
which has a condition similar to the input viewing condition, from the plurality of sets of
colorimetric data in accordance with a relation comparison between the input viewing
condition and [[each]] condition of the light sources; and

a conjecturing section, arranged to conjecture colorimetric data
corresponding to depending on the input viewing condition based on from the selected
colorimetric data.

15. (Previously Presented) The apparatus according to claim 14, further comprising a cache arranged to cache the conjectured colorimetric data to the profile.

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16. (Currently Amended) An image processing apparatus comprising:
an obtaining section, arranged to obtain a profile having a plurality of sets of colorimetric data which correspond to respective light sources;
an inputting section, arranged to input a viewing condition;
a selector, arranged to select a set of colorimetric data of a light source, which has a condition similar to the input viewing condition, from the plurality of sets of colorimetric data in accordance with ~~a relation~~ comparison between the input viewing condition and ~~[[each]]~~ conditions of the light sources; and
a generator, arranged to generate data for color matching corresponding to the input viewing condition based on the selected set of colorimetric data.

17. (Previously Presented) The apparatus according to claim 16, further comprising a caching section arranged to cache the generated data to the profile.

18. (Currently Amended) A computer program product storing a computer readable medium having computer program codes, for an image processing method, said product comprising process procedure codes for:
obtaining a plurality of sets of colorimetric data which correspond to respectively light sources;

inputting a viewing condition;

~~selecting comparing the input viewing condition with conditions of the light sources to select a set of colorimetric data of a light source that has a condition similar to the input viewing condition, from the plurality of sets of colorimetric data in accordance with a relation between the input viewing condition and each light source; and~~

conjecturing colorimetric data ~~corresponding to depending on~~ the input viewing condition based on from the selected set of colorimetric data.

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19. (Original) The product according to claim 18, further comprising caching process procedure code for caching the conjectured colorimetric data to the profile.

20. (Currently Amended) A computer program product storing a computer readable medium having computer program codes, for an image processing method performing color process on input image data based on a color appearance model, said product comprising process procedure codes for:

obtaining a profile having a plurality of sets of colorimetric data which correspond to respective light sources;

inputting a viewing condition;

~~selecting comparing the input viewing condition with conditions of the light sources to select a set of colorimetric data of a light source that has a condition similar to the input viewing condition, from the plurality of sets of colorimetric data in accordance with a relation between the input viewing condition and each light source; and~~

generating data for color matching corresponding to the input viewing
condition based on the selected colorimetric set of colorimetric data.

21. (Original) The product according to claim 20, further comprising

caching process procedure code for caching the generated data to the profile.